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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,008	08/21/2003	Randall E. Aull	MS304410.1/MSFTP463US	6222

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AMIN. TUROCY & CALVIN, LLP  
24TH FLOOR, NATIONAL CITY CENTER  
1900 EAST NINTH STREET  
CLEVELAND, OH 44114

EXAMINER
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GELAGAY, SHEWAYE

ART UNIT	PAPER NUMBER
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2137

NOTIFICATION DATE	DELIVERY MODE
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11/15/2007

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket1@thepatentattorneys.com  
hholmes@thepatentattorneys.com  
osteuball@thepatentattorneys.com

**Office Action Summary**

Application No.

10/645,008

Applicant(s)

AULL ET AL.

Examiner

Shewaye Gelagay

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4, 6-22, 25-30, 32 and 35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-22, 25-30, 32 and 35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f):
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>10/14/07</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

1. This office action is in response to Applicant's amendment filed on August 22, 2007. Claims 1, 3-4, 6-7, 9-10, 12-13, 15, 20-22, 25, 28-30, 32 and 35 have been amended. Claims 5 and 31 have been canceled. Claims 1-4, 6-22, 25-30, 32 and 35 are pending.

### ***Claim Objections***

2. In view of the amendment August 22, 2007, the Examiner withdraws the objection to claims 9 and 31-32.

### ***Claim Rejections - 35 USC § 112***

3. In view of the amendment filed August 22, 2007, the Examiner withdraws the rejection of claims 1, 3-7, 10, 12-13, 15, 20-22, 25, 28-31 and 35 under 35 U.S.C. 112.

### ***Claim Rejections - 35 USC § 101***

4. In view of the amendment filed August 22, 2007, the Examiner withdraws the rejection of claims 31 and 32 under 35 U.S.C. 101.

### ***Response to Arguments***

5. Applicant's arguments filed August 22, 2007 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-4, 8, 10, 12, 14, 20, 25-26, 32 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips et al. (hereinafter Phillips) US Patent Number 6,721,555 in view of Rekimoto et al. (hereinafter Rekimoto) US Publication Number 2005/0120096.

As per claims 1, 12, 20, 25, 32 and 35:

Phillips teaches a physical device bonding system that facilitates device installation and/or authentication comprising:

a physical interface component that physically couples at least two devices; (figure 1, item Rm; col. 7, lines 41-57) and

an invocation component that invokes an installation protocol and/or an authentication protocol for a non-physical connection upon the at least two devices physically coupling. (figure 1; col. 4, line 54-col. 5, line 63)

Phillips does not explicitly teach to establish a non-physical connection so that the at least two devices communicate wirelessly upon being physically decoupled. Rekimoto in analogous art, however, teaches to establish a non-physical connection so that the at least two devices communicate wirelessly upon being physically decoupled.

(Abstract; figure 5; page 6, paragraph 131-133; page 8, paragraph 159-162). Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the system disclosed by Phillips with Rekimoto for exchanging data between small and light information terminals. (Abstract; Pierce)

As per claims 2 and 14:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. In addition, Phillips further discloses a system at least two devices further comprising at least one wireless device and at least one network entity. (figure 1)

As per claim 3:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. In addition, Phillips further discloses a system the installation protocol at least one of the authentication protocol invokes the installation at least one of authentication during the physical connection. (col. 5, lines 6-25)

As per claim 4:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. In addition, Phillips further discloses a system at least one of the installation protocol or the authentication protocol is utilized to invoke installation or authentication after a physical connection is disengaged. (col. 5, lines 56-64)

As per claim 26:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. In addition, Phillips further discloses a system that infers at least one of the installation protocols or authentication protocols to establish the non-physical

connection between a wireless device and a network entity. (col. 4, line 54-col. 5, line 63)

As per claim 8:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. In addition, Phillips further discloses a system the physical interface is at least one of or a combination of the following: a human; a cradle; a dock; a cord; a wand; a wire; and a touch pad. (figure 1, item Rm; col. 7, lines 41-57)

As per claim 10:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. In addition, Phillips further discloses a system the physical interface is a universal serial bus cable. (figure 1, item Rm; col. 7, lines 41-57)

8. Claims 6, 9, 15-19, 21, 27 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips et al. (hereinafter Phillips) US Patent Number 6,721,555 in view of Rekimoto et al. (hereinafter Rekimoto) US Publication Number 2005/0120096 in view of Plasson et al. (hereinafter Plasson) US Patent Number 6,795,688.

As per claims 6, 21, 27 and 30:

9. The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. Both references do not explicitly disclose the invocation component utilizes a daisy chain scheme to invoke at least one of the installation protocol or authentication protocol. Plasson in analogous art, however, discloses invocation

component utilizes a daisy chain scheme to invoke the installation protocol and/or authentication protocol. (col. 10, line 34-col. 11, line 11 ; col. 17, lines 53-67) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Phillips and Rekimoto with Plasson in order to provide-a system dynamically configuring a device, adapted to be communicatively coupled in a wireless personal area network, with an attribute corresponding to the device. (col. 5, lines 43-45; Plasson)

As per claim 9:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. Both references do not explicitly disclose the physical interface is a touch-pad comprising a conductive material. Plasson in analogous, art, however, discloses the physical interface is a touch-pad comprising a conductive material. (col. 10, lines 8-17) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Phillips and Rekimoto with Plasson in order to provide a system to communicate information and command selections. (col. 10, lines 9-10; Plasson)

As per claim 15:

The combination of Phillips, Rekimoto and Plasson teaches all the subject matter as discussed above. Both references do not explicitly disclose explicitly disclose the physical interface component comprises a plurality of device at least one of the installation or authentication protocol(s) that provides the installation and/or

authentication of a plurality of non-physical connections. Plasson in analogous art, however, discloses the physical interface component comprises a plurality of device at least one of the installation or authentication protocol(s) that provides at least one of the installation or authentication of a plurality of non-physical connections. (figure 3A)

As per claims 16 and 18-19:

The combination of Phillips, Rekimoto and Plasson teaches all the subject matter as discussed above. In addition, Plasson further discloses a system the non-physical connections between the plurality of devices and the at least one network entity are independent and separate. (figure 1, item 190)

As per claim 17:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. Both references do not explicitly disclose explicitly disclose the device is at least one of a wireless adapter; a wireless speaker; a wireless headset; a wireless keyboard; a wireless mouse; a wireless monitor; a wireless personal digital assistant (PDA); a wireless access point; and a wireless MP3 player. (col. 10, lines 8-55)

Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Phillips and Rekimoto with Plasson in order to provide a system dynamically configuring a device, adapted to be communicatively coupled in a wireless personal area network, with an attribute corresponding to the device. (col. 5, lines 43-45; Plasson)



10. Claims 7, 11, 22 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips et al. (hereinafter Phillips) US Patent Number 6,721,555 in view of Rekimoto et al. (hereinafter Rekimoto) US Publication Number 2005/0120096 in view of Silvester US Publication Number 2003/0172271.

As per claims 7, 22 and 29:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. Both references do not explicitly disclose explicitly disclose a token key that stores at least one of the installation or authentication protocols of at least one wireless device during the physical connection between the wireless device and the physical interface component, the token key facilitates invocation at least one of the installation protocol or authentication protocol for the at least one wireless device during the physical connection between the physical interface component and a network entity, such that a non-physical connection is established between the at least one wireless device and the network entity. Silvester in analogous art, however discloses a token key that stores the installation and/or authentication protocols of at least one wireless device during the physical connection between the wireless device and the physical interface component, the token key facilitates invocation of the installation protocol and/or authentication protocol for the at least one wireless device during the physical connection between the physical interface component and a network entity, such that a non-physical connection is established between the at least one wireless device and the network entity.(page 8, paragraph 105-page 9, paragraph 109) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Phillips

and Rekimoto with Silvester in order to have a system for a wireless device set-up and authentication utilizing authentication initialization token. (page 1, paragraphs 1 and 18; Silvester)

As per claim 11:

The combination of Phillips, Rekimoto and Silvester teaches all the subject matter as discussed above. In addition, Phillips further discloses a non-physical connection is at least one of: a wireless connection; an optical connection; and an infrared connection. (figure 1)

11. Claims 13 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips et al. (hereinafter Phillips) US Patent Number 6,721,555 in view of Rekimoto et al. (hereinafter Rekimoto) US Publication Number 2005/0120096 in view of Chaskar et al. (hereinafter Chaskar) US Publication Number 2005/0066044.

As per claims 13 and 28:

The combination of Phillips and Rekimoto teaches all the subject matter as discussed above. Both references do not explicitly disclose utilizing an artificial intelligence technique to facilitate installation and/or authentication of a device. Chaskar in analogous art, however, discloses utilizing an artificial intelligence technique to facilitate installation and/or authentication of a device. (page 5, paragraph 51) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Phillips and Rekimoto with Chaskar in order to facilitate probability of success regarding satisfying the mobile device current location determination needs.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shewaye Gelagay whose telephone number is 571-272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Shewaye Gelagay

  
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